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TITLE: Preventing Health Damaging Behaviors and Negative Health Outcomes in Army and Marine Corps Personnel During the First Tour of Duty

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17. LIMITATION

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b. ABSTRACT

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3. INTRODUCTION

The proposed study will utilize a group, randomized controlled study design to evaluate the effectiveness of a cognitive-behavioral intervention to: (1) prevent sexually transmitted infections (STIs), unintended pregnancies (UIPs), alcohol and other substance misuse, and exposure to or involvement with personal sexual violence among Marine Corps recruits; (2) reduce participants' risk for STIs, UIPs, alcohol and other substance misuse, and exposure to or involvement with personal sexual violence by (a) decreasing gaps in knowledge and misperceptions about risk and prevention, (b) increasing motivation to change risk behaviors, (c) building effective skills to engage in health promoting behaviors, (d) decreasing sexual risk behavior; and (3) determine the best strategy for educating participants about the sensitive health matters such as STIs, UIPs, alcohol and other substance misuse, and exposure to or involvement with personal sexual violence. Additionally, all participants will complete self-administered questionnaires and will be screened for STIs (*C. trachomatis* and *N. gonorrhoeae*) at baseline and 12 months post-intervention and will be screened for pregnancy/UIP at 12 months.

4. BODY

Part of this year was spent seeking Institutional Review Board (IRB) approval to conduct elicitation research at each participating performance site, including our home institution, the University of California, San Francisco (UCSF), the Naval Health Research Center (NHRC), San Diego, CA to conduct research at the Marine Corps Recruit Depot, Parris Island, SC, and the Brooke Army Medical Center (BAMC), San Antonio, TX to conduct research at Fort Sam Houston, San Antonio, TX, and the Human Subjects Research Review Board (HSRRB) at Fort Detrick, MD, as required. IRB approval has been received from UCSF, NHRC, and the HSRRB. However, due to the excessively long delays in obtaining approval from the BAMC IRB and due to need for a larger sample size than we previously thought it would take to effectively evaluate the effectiveness of the intervention, we requested, and were granted approval from COL Brian Lukey, USAMRMC, our Grant Officer (GOR), to modify our Statement of Work to focus exclusively on Marine Corps recruits. As a result, we withdrew our IRB application from the BAMC IRB. Our approved modified Statement of Work is as follows:

STATEMENT OF WORK (SOW)

- 1. Brief commanding officers of the Marine Corps Recruit Depot (MCRD) Parris Island, SC and the Beaufort Naval Hospital, Beaufort SC.
 - a. In addition to receiving IRB approval, we continued briefing command leaders at both MCRD and Naval Hospital in Beaufort, SC through ongoing telephone and electronic communication. The command leaders included Mr. Eric Junger GS11, LTC Neal Pugliese, CAPT Rodney Towery, MAJ William Clark, MAJ Douglas Alexander, and CDR Arthur Giguere. After receiving approval to conduct focus groups it was withdrawn by the Executive Officer of the Training Command. The reason cited for declining participation in the study at this time was significant training demands.
 - b. We subsequently briefed staff from the Headquarter Marine Corps, Preventive Medicine Office, Quantico, VA. Our contact was CDR David McMillan. After months of

interactions we were then referred to LCDR Janet Spira from the First Marine Expeditionary Force (I MEF), Camp Pendleton, CA. After numerous interactions and tremendous interest and in the potential health benefits of our proposed intervention, at the request of LCDR Spira we sent a written brief to the Commanding General of I MEF. Despite tremendous interest and months of electronic and telephone communication, LCDR Spira informed us that her Surgeon General declined participation in our study at this time due to the I MEF's significant preparations for deployment and the large number of troops who are currently deployed, despite their interest in the intervention.

c. We are currently planning to identify command leaders of the Base Units at Camp Pendleton to determine whether they will be able to accommodate our proposed research study at this time.

The following SOW tasks have not been completed, as they are contingent upon activities yet to be accomplished as described above.

- 2. Conduct focus groups to assist in the development of: (1) comparable gender-specific interventions to reduce health damaging behaviors associated with sexually transmitted infections (STIs), unintended pregnancies (UIPs), alcohol and other substance misuse, and personal sexual violence; and (2) pre- and post-intervention self-administered questionnaires to assess knowledge, attitudes, and beliefs, and behaviors associated with STIs, UIPs, alcohol and other substance misuse, and personal sexual violence.
- 3. Develop comparable gender-specific interventions for male and female Marine Corps recruits to: (1) prevent acquisition of STIs and UIPs; and (2) reduce the risk of STI- and UIP-related behaviors including alcohol and other substance misuse, and personal sexual violence.
 - a. Although we have not had the opportunity to implement the focus group phase of the study to assist in the development of the Marine Corps-specific intervention, we have continued to work on developing the interventions by focusing on aspects of the intervention's development that do not require direct input from the Marine Corps. Such activities include conducting extensive literature reviews and examining effective health promotion-disease prevention interventions related to STIs, UIPs, alcohol and other substance misuse, and personal sexual violence. Specifically, our team is engaging in the following formative research activities that will contribute ultimately to the development of the proposed interventions:
 - b. Review relevant theoretical frameworks that guided the development and evaluation of previously effective health interventions related to STIs, UIPs, alcohol and other substance misuse, and personal sexual violence. As a result of our extensive literature review to date, and based on our previous military-specific intervention and research, we have decided to use the Information, Motivation, Behavioral Skills model (IMB) as the primary theoretical foundation to guide the development of the proposed intervention (See Appendix 1 for an overview of prevalent psychological and social theoretical frameworks that have guided previous interventions). Other theoretical frameworks that will be used will include Harm Reduction Theory and the Theory of Gender and Power,

along with other theories and models of health behavior and behavior change. See Appendix 2, for an overview of the learning objectives for major components of the proposed intervention as well as an overview on how the theoretical frameworks will be utilized to guide the development of the proposed intervention targeting each of the primary health outcomes of interest.

- c. The proposed control group arm of the intervention will focus on nutrition and injury prevention. Formative research activities related to this intervention include conducting extensive literature reviews and gathering current epidemiological information related to injury prevention and nutrition. See Appendix 3 for an overview of the leaning objectives and a preliminary outline of the control intervention. This arm of the intervention trial will also be guided by principles of the IMB model.
- 4. Pilot-test the gender-specific interventions, self-administered questionnaires, and the biological specimen collection protocol for feasibility.
- 5. Implement the gender-specific interventions at MCRD within the context of recruit training.
- 6. Conduct a 12-month follow-up of intervention participants.
- 7. Evaluate the effectiveness of each gender-specific intervention and compare differences across interventions on study participants' acquisition of STIs and UIPs during their first year of military service.
- 8. Examine key sub-questions related to STIs and UIPs: (1) assess psychosocial, behavioral, and contextual factors associated with STIs and STI-related risk at baseline and STIs and UIPS at follow-up; (2) document the prevalence of personal sexual violence at recruit training entry; (3) examine relationships among personal sexual violence, STIs, and STI-related risk at baseline and STIs and UIPS at follow-up; and (3) determine the relationship between alcohol and other substance misuse and personal sexual violence and the relationship of these factors to STIs and STI-related risk at baseline and STIs and UIPS at follow-up.
- 9. Disseminate study findings through: (1) briefs given to participating military commands; (2) presentations at military-specific preventive medicine meetings as well as annual scientific meetings; and (3) publications submitted to scientific journals.

5. KEY RESEARCH ACCOMPLISHMENTS TO DATE

The key research accomplishments to date are described above. Primarily, we have begun development of the interventions, and are still in the process of identifying a Marine Corps cohort that will be used to carry out the above outlined SOW.

6. REPORTABLE OUTCOMES

There are no reportable outcomes to date.

PROPOSED PROJECT ACTIVITIES:

Our plans for the coming year include implementing SOW activities outlined in items 2-5 above. Specifically, we plan to conduct focus groups, finalize the proposed intervention curricula, and pilot-test the interventions, self-administered questionnaires, and the biological specimen collection protocol for feasibility in each command. Moreover, we will continue to conduct briefs in order to identify the appropriate command to carry out the SOW.

7. CONCLUSIONS

There are no scientific conclusions that can be made at this time.

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9. APPENDICES

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV (15 pages)

Appendix 2: Intervention Learning Objectives for each Outcome of Interest (11 pages)

Appendix 3: Control Intervention Fitness for Life II Module Outline (5 pages)

Theoretical Frameworks That Inform HIV/STI Prevention Interventions

Theoretical Framework	Interventions That Use This Theory
Information Motivation and Behavioral Skills (IMB) (1).	Becoming a Responsible Teen FOCUS
Fundamental Assumptions	Theory Based STD Prevention Program
IMB model asserts that HIV prevention information, HIV prevention motivation, and HIV prevention behavioral skills are fundamental determinants of HIV preventive behavior. To the extent that individuals are well informed, motivated to act and possess behavioral skills required to act effectively, they will be likely to initiate and maintain patterns of HIV preventive behavior.	for Female College Students
HIV Prevention Information HIV Prevention Behavioral Skills HIV Prevention Motivation	
Elicitation Elicitation of existing levels of health promotion information, behavioral skills and health	
promotion behavior	
Intervention	
Design and implementation of empirically targeted intervention to address health promotion	
information, motivation behavioral skills, and health promotion behavioral deficits.	
Evaluation Evaluation of intervention impact on health promotion information metivation and behavioral	
Evaluation of intervention impact on health promotion information, motivation and behavioral skills and health promotion behavior.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework
Social Cognitive Theory/Social Learning Theory (2).

Definition

Concent

Emphasizes that a person's behaviors and cognitions affect future behavior. Human behavior is explained in terms of a triadic, dynamic, and reciprocal model in which behaviors, personal factors (including cognitions) and environmental factors all interact. The result is that a person's behavior is uniquely determined by these interactions.

The original social learning theory was based upon classic learning principles. Albert Bandura and others added more cognitive concepts to help in the explanation of behavior thus the change to social cognitive theory.

Implications

Major Concepts In Social Cognitive Theory and Implications for Interventions

Concept	Definition	Implications
Environment	Factors physically external to the person	Provide opportunities for social support
Situation	Persons perception of the environment	Correct misperceptions and promote healthful norms
Behavioral Capability	Knowledge and skill to perform a given behavior	Promote mastery learning through skills training
Expectations	Anticipatory outcomes of a behavior	Model positive outcomes of a healthful behavior
Expectancies	The values that the person places on a given outcome, incentive	Present outcomes of change that have functional meaning
Self Control	Personal regulation of goal directed behavior or performance	Provide opportunities for self-monitoring, goal setting, problem solving and self-reward
Observational Learning	Behavior acquisition that occurs by watching the actions and outcomes of others' behaviors	Include credible role models of the targeted behavior
Reinforcements	Responses to a person's behavior that increase or decrease the likelihood of reoccurrence	Promote self-initiated rewards and incentives
Self efficacy	The person's confidence in performing a particular behavior	Approach behavioral change in small steps to ensure success; seek specificity about the change sought
Emotional Coping responses	Strategies or tactics that are used by a person to deal with emotional stimuli	Provide training in problem solving and stress management; include opportunities to practice skills in emotionally arousing situations.
Reciprocal Determinism	The dynamic interaction of the person, the behavior, and the environment in which the behavior is performed.	Consider multiple avenues to behavioral change including environmental, skill and personal change.

Interventions That Use This Theory HIV/STI Becoming a Responsible Teen **AIDS Prevention for Adolescents** AIDS Prevention and Health Promotion Among Women Get Real About AIDS Be Proud/Be Responsible Safer Sex Efficacy Workshop Reducing the Risk Project Respect Street Smart Project Light Project Safe Personal Sexual Violence Scruples Date Rape Prevention Substance Abuse Healthy Workplace ATLAS/ATHENA

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework	Interventions That Use This Theory	
The Tran theoretical and Stages of Change Model (3).	HIV/STI Interventions	
This theory asserts that behavior change happens in 5 stages, and is affected by some critical		
assumptions underlying the model.	A Tailored Minimal Self -help Intervention	
• Pre-contemplation—stage at which a person has no intention to take action to change a behavior in	to Promote Condom Use in Young	
the next 6 months.	Women.	
• Contemplation—stage at which a person intends to change in the next 6 months. They are aware of		
the pros of changing a behavior, but are also acutely aware of the cons.—this balance often keeps		
people in this stage for a long period of time.		
• Preparation—stage at which a person intends to take action in the immediate future (i.e. the next		
month). They may have already taken some significant action in the past year. The person often has		
a plan of action		
• Action—the stage at which a person has made specific overt modifications in their lifestyle within		
the last six months. Not all modifications of behavior count as action in this model. People must		
attain the criterion that scientists and professionals agree is sufficient to reduce the risk of disease.		
• Maintenance—this is the stage where the person is working to prevent relapse, but they do not use		
the behavior change processes as much as someone who is in the Action stage.		
Critical Assumptions		
Processes of change—these are the covert and overt activities that are used to help people progress		
through the stages.		
• Consciousness raising—increased awareness about the cases that relate to a particular behavioral		
problem, and its consequences and cures		
• Dramatic Relief—experiencing the negative emotions that go along with unhealthy behavior		
• Self- Re-evaluation—realizing that behavior change is important part of ones self identity		
• Environmental reevaluation—realizing the negative or positive impact of the health behavior on		
one's social and physical environment.		
Self liberation—making a firm commitment to change		
Helping relationships—seeking and using social support for healthy behavior change		
Counter-conditioning—substituting healthy behaviors for unhealthy ones		
• Contingency management—increasing rewards for positive health behavior change, decreasing		
rewards for unhealthy behaviors		
1. Stimulus Control—removing reminders or cue to engage in unhealthy behavior, and adding cues		
to increase engagement in healthy behaviors		
2. Social Liberation—realizing that the social norms are changing in a direction that supports		
healthy behavior change.		

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework	Interventions That Use This Theory
AIDS Risk Reduction Model (4).	HIV/STI Interventions
 This model was introduced in 1990 provides a framework for explaining and predicting the behavior change efforts of individuals specifically in relation to HIV/AIDS. Stage 1—Recognition and labeling one's behavior as high risk Stage 2—Making a commitment to reduce high risk sexual contacts, and to increase low risk activities Stage 3—Taking action. This stage is broken down in to 3 phases; 1) information seeking, 2) obtaining remedies, 3) Enacting solutions. 	A tailored minimal self-help intervention to promote condom use in young women. Project FIO Project Connect Project Safe

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework	Interventions That Use This Theory
Theory of Reasoned Action/Theory of Planned Behavior (5).	HIV/STI Interventions
	Get Real about AIDS
Based on the premise that humans are rational and that the behaviors being explored are	Be Proud/Be Responsible (TPB)
under volitional control., the theory provides a construct that links individual beliefs,	Project Respect
attitudes, intentions and behaviors	Project Light
 Behavioral Intention—Perceived likelihood of performing a behavior 	A Tailored Minimal Self-Help Intervention to
 Attitude-Behavioral Belief—Belief that the behavioral performance is associated with certain attributes or outcomes 	Promote Condom Use in Young Women
 Evaluation—Value attached to a behavioral outcome or attribute 	Substance Abuse
 Subjective Norm-Normative Belief—Belief about whether each referent approves or disapproves of the behavior 	ATLAS/ATHENA
 Motivation to Comply—Motivation to do what the referent think 	
Perceived behavioral Control	
 Control Belief—perceived likelihood of occurrence of each facilitating or constraining condition 	
 Perceived power—perceived effect of each condition in making 	
behavioral performance difficult or easy. (Bolded area = Theory of Planned Behavior.)	
Theory of Planned Behavior	
The theory of Planned Behavior is an extension of TRA. Perceived Behavioral Control is added to the model in an effort to account for factor outside the individual's control that may affect their intention and behavior. This extension is based in part on the idea that behavioral performance is determined jointly by motivation and ability.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Frameworks	Interventions That Use This Theory
Conservation of Resources Theory (6).	AIDS Prevention and Health Promotion
	Among Women
Theory asserts that an individual aspires to preserve, protect, and build resources.	
Resources are characterized by objects, conditions, personal characteristics, or energies that	
have specific importance for the individual.	
Stress occurs when a person is threatened with the loss of resource, or the actual loss of	
resources.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Frameworks	Interventions That Use This Theory
Social Inoculation Theory (7).	Reducing the Risk
This is a theory that emphasizes social pressures to adopt unhealthy behavior. Based on the belief that young people lack the negotiating skills to resist unhealthy behaviors that come from peer pressure and other influences, the theory proposes a range of techniques that can be used to "inoculate youth from such pressure.	
G. Turner, J. Shepherd, <i>Health Educ. Res.</i> 14, 235-247 (1999).	
Healthy attitudes or behavior can be threatened by not knowing how to defend them against the pressure for unhealthy ones. The process used to inoculate the individual consists of presenting the arguments that support the desired behavior, followed by a presentation of arguments used to promote the undesired behavior, followed in turn by answers refuting such arguments.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework	Interventions That Use This Theory
Elaboration Likelihood Model (8).	Date Rape Prevention Program for Racially
	Diverse College Men
Elaboration Likelihood Model (ELM) conceptualizes attitude change on a continuum the	
two main routes are the peripheral route, and central route processing.	
Peripheral Route processing is when the individual attends to superficial issues such as the	
presenter's physical characteristics	
Central Route processing is when the individual attends to the central meaning of the	
message.	
Model suggests that if the participants find the message of low personal relevance to them,	
they will focus on the peripheral route processing instead of the central route processing	
therefore only causing temporary attitude change.	
If the participant finds the message to be of personal relevance they will focus on the	
central route processing and therefore be more likely to exhibit long term attitude change.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Frameworks	Interventions That Use This Theory
Social Norms Approach (9).	Rape Prevention Project for Men
Social Norms approach suggests that one's behavior is influenced by incorrect perceptions of how member of one's social groups think and act.	
The approach predicts that overestimations of problem behavior will increase these problem behaviors, while underestimations of healthy behaviors will discourage individuals from engaging in them. Therefore if you correct the misperception of group norms it will likely reduce the problem behavior or increase the prevalence of healthy behavior.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework	Interventions That Use This Theory
Cognitive Behavior Theory (10).	Reducing the Risk—HIV/STI Intervention
The foundation of this model is that youth need specific cognitive and behavioral skills in order to resist pressure and successfully negotiate interpersonal encounters. The model has three components 1. Activities to personalize information about sexuality, reproduction and contraception 2. Training in decision making and assertive communication skills 3. Practice applying those skills in personally difficult situations.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framework	Interventions That Use This Theory
Theory of Gender and Power (11).	None Identified.
Theory originally developed by Robert Connell. It is a social structural theory based on philosophical writings of sexual inequality, gender and power imbalances.	
 Three major structures characterize gendered relationships Sexual division of labor—examines the economic inequities favoring males Sexual division of power—examines inequities and abuses of authority and control in relationships and institutions favoring males Sexual cathexis, which examine social norms and affective attachments. These structures are overlapping but distinct and work together to explain the gender roles that people assume. 	
DiClemente and Wingood added to this theory by postulating that gender based inequities arise from the 3 structures and generate different exposures and risk factors that influence women's risk for disease.	
The structure exist at 2 different levels 1. Societal	
2. Institutional	

Proposed Model Conceptualizing the Influence of the Theory of Gender and Power on Women's Health

Societal	Institutional	The Social Mechanisms	Exposures	Risk Factors	Biological	Disease
Level	Level				factors	
Sexual division	Work site,	Manifested as unequal	Economic	Socio economic		
of labor	School,	pay which produces	exposures risk			
	family	economic inequities for	factors			
		women				
Sexual	Relationship	Manifested as imbalances	Physical exposures	Behavioral risk	Douching	HIV
Division of	Medical	in control which produce		factors	Pregnancy	
Power	System	inequities in power for			Contraception	
	Media	women				
Structure of	Relationships	Manifested as constraints	Social Exposures	Personal risk		
Cathexis:	Family	in expectations, which		factors		
Social norms	Church	produce disparities in				
and affective		norms for women				
attachments						

Theory of Gender and Power Exposures, Risk Factors, and biological Properties

Sexual Division of Labor	Socioeconomic Risk Factors—Women who:
Economic Exposures—Women who:	
Live at poverty level	 Are ethnic minorities
Have less than a high school education	 Are younger (less than 18 years of age
Have no employment or are under-employed	
Have a high demand- low control work environment	
Have limited or no health insurance	
Have no permanent home (are homeless)	
Sexual Division of Power:	Behavioral Risk Factors—Women who have:
Physical exposures—Women who have:	
A history of sexual or physical abuse	A history of alcohol and drug abuse
A partner who disapproves of practicing safer sex	 Poor assertive communication skills
A high-risk steady partner	 Poor condom use skills
A greater exposure to sexually explicit media	 Lower self-efficacy to avoid HIV
• Limited access to HIV prevention (drug treatment, female controlled methods,	 Limited perceived control over condom use
school based HIV prevention education)	
Structure of Social Norms and Affective Attachments:	Personal Risk Factor—Women who have:
Social Exposures—Women who have:	
A partner who is older	Limited knowledge of HIV prevention
A desire or whose partner desires to conceive	 Negative beliefs not supportive of safer sex
Conservative cultural and gender norms	 Perceived vulnerability to HIV/AIDS
A religious affiliation that forbid the use of contraception	A history of depression or psychological
A strong mistrust of the medical system	distress.
Family influences not supportive of HIV prevention.	
Biological Properties: Anatomical and biomedical properties	
HIV is transmitted more efficiently from men to women than from women to men,	
as women are the receptive partner during sexual intercourse	
• STD's aside from HI, are also transmitted more efficiently from men to women than	
from women to men; these STD's can increase women's vulnerability to HIV	
STD's are more asymptomatic in women; thus, women may be less likely to seek	
treatment for STD's and more likely to develop STD related complications	
Biological characteristics such as having sex while menstruating, using OCM's	
history of cervical ectopy, and having an immature cervix may increase HIV risk	
among younger women.	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Framew	orks		Interventions That Use This Theory
Health Belief Model (12).			AIDS Prevention for Adolescents in
psychologists as a wa beliefs of the individu	y to explain and predict healt	that was developed in the 1950's by social th behaviors by focusing on the attitudes and Model	school
Concept	Definition	Application	
Perceived susceptibility	One's opinion of chances of getting a condition	Define populations at risk and risk levels Personalize risk based on a person's characteristics or behavior Make perceived susceptibility more consistent with individuals actual risk	
Perceived Severity	One's opinion of how serious a condition and sequelae are	Specify consequences of the risk and the condition	
Perceived benefits	One's opinion of the efficacy of the advised action to reduce the risk or seriousness of impact	Define action to take: how, where, when, clarify the positive effect to be expected	
Perceived barriers	One's opinions of the tangible and psychological costs of the advised action	Identify and reduce perceived barriers through reassurance, correction of misinformation, incentives, assistance	
Cues to action	Strategies to active one's readiness	Provide how to information, promote awareness, employ reminder systems	
Self-efficacy	One's confidence in one's ability to take action	Provide training and guidance in performing action. Use progressive goal setting give verbal reinforcement Demonstrate desired behaviors Reduce anxiety	

Appendix 1: Theoretical Frameworks That Have Guided Development of Interventions to Prevent STIs/HIV

Theoretical Frameworks	Interventions That Use This Approach
 Theoretical Frameworks Harm Reduction Theory (13). Harm Reduction is a pragmatic approach to drug and alcohol consumption and their related problems. It is based on 3 core objectives To reduce harmful consequences associated with drug and alcohol use, To provide an alternative to zero-tolerance approaches by incorporating use goals (abstinence or moderation) that 	Interventions That Use This Approach SHAHRP VOICE BASIC
 are compatible with the needs of the individual, To promote access to services by offering low-threshold alternatives to traditional drug and alcohol prevention and treatment. 	

Preventing Sexually Transmitted Infections

Learning Objectives:

- Increase knowledge about the signs, symptoms and consequences of STIs/HIV/AIDS
- Increase knowledge about the transmission and prevention of STIs and HIV
- Build communication skills to prevent STIs and HIV
- Develop skills to identify resources available for testing and treatment of STIs and HIV.
- Increase confidence in ones ability to access testing and treatment resources as needed.

Information	Motivation	Behavioral Skills	Behavioral Outcomes
Increase knowledge about the prevalence of STIs and HIV in young people (adolescents and young adults). Increase awareness of how STIs and HIV are transmitted Describe the signs and symptoms of STIs and HIV Describe current treatment of STIs and HIV Discuss risky sexual behaviors associated with STI/HIV risk Discuss and correct misinformation about STIs and HIV Increase awareness of the role of alcohol in sexual decision making. Increase knowledge of where to get tested and treated for STIs on and off base.	Personal Increase awareness of how getting an STI/HIV could lead to more serious health consequences such as, fertility problems or complications with child birth. Discuss how complications from an undetected/untreated STIs/HIV impact: Health Relationships Career Increase awareness of how STIs and HIV infection are prevalent in the military. Social Norms Describe how Religious or cultural mores could play a role in avoidance of sexual situations that might expose a participant to an STI or HIV. Discuss how social stigma associated with HIV could have negative impact on: Peers Family Unit Romantic Partners	Increase skills in one's ability to obtain and/or purchase condoms Build skills in proper use of male and female condoms Build skills to communicate with sexual partners about: Sex Practicing safer sex Getting tested for STIs and HIV Build skills in one's ability to: Sustain Maintain Renegotiate safer sex agreements across time. Provide an opportunity for participants to self-assess their own STI/HIV acquisition risk.	Reduce the incidence of STIs or HIV. Increase the incidence of Safer sex Abstinence Not combining alcohol and sex Negotiating condom use with sexual partner

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Behavioral Skills	Behavioral Outcomes
	Self Efficacy		
	Increase confidence in ability to protect oneself		
	against STIs and HIV through		
	• Abstinence		
	Proper condom use		
	 Not engaging in sexual situations that might 		
	expose one to STIs or HIV.		
	• Not mixing alcohol and sex.		
	Perceived Vulnerability		
	Increase awareness of how assumptions about a		
	potential sexual partner can influence one's		
	perception of risk. (I.e. He/she has a good job		
	and reputation therefore he/she is probably safe		
	and clean).		
	Behavioral Intention		
	To protect oneself from contracting an STI or		
	HIV by		
	 Practicing abstinence 		
	 Engaging in safer sexual practices 		
	 Not combining alcohol and sex 		
	• Not engaging in sexual situations that might		
	put one at risk for STIs or HIV.		

Preventing Unintended Pregnancy

Learning Objectives:

- Increase knowledge about unintended pregnancy (UIP).
- Increase knowledge about hormonal and barrier contraceptive methods.
- Build communication skills to prevent unprotected sexual encounters.
- Provide skills for increased and consistent contraceptive use.
- Examine values, beliefs and attitudes that could increase UIP
- Increase knowledge about UIP in young people including the advantages and disadvantages of prevalent contraceptive methods

Information	Motivation	Behavioral Skills	Behavioral Outcomes
Provide a historical overview of	Personal Motivations	Increase skills	Reduce unintended pregnancies
contraceptive methods.	Examine long term and short	• to negotiate contraception	and impregnation among
	term career goals, and how an	with all sexual partners	participants.
Provide basic information about	UIP could impact those goals	obtain contraception	
male and female anatomy and	for both men and women.	• consistently use chosen	Increase the use of contraceptive
physiology and:	• Effects on career and reputation	contraception method as	methods in sexual encounters.
Describe how pregnancy	How it could affect deployment	appropriate for their goals	Reduce frequency of unprotected
occursDescribe ovulation, when it	Amount of time served	Turner - 1.111 in 1.1	sexual encounters and mixing sex
occurs and how it relates to	• Financial and housing issues.	Increase skill in identifying, obtaining, and consistently using	with alcohol.
pregnancy	 Relationships with friends, 	contraception as appropriate for	
pregnancy	family	their goals.	Increase revisiting issue of
Discuss the impact of UIP on a	• Romantic partner(s)	unon goune.	contraception use over time with
woman when she is in the		Enable participants to create a	health care provider.
military.	Examine personal values, beliefs,	plan for using contraception if	
	and attitudes about contraception	desired, and choosing the	
Provide information about the	and sexual partner communication	method of contraception that is	
contraceptive methods		right for them.	
available to prevent pregnancy	Examine the reasons why a young		
hormonal	person would choose pregnancy	Identify a secondary method of	
• barrier	Benefits of becoming pregnant	contraception if:	
abstinence from vaginal	pregnantMotivations for	• A partner is resistant,	
intercourse	pregnancy, either avoiding one	Preferred method is	
	or having one	unavailable.	
Discuss pros and cons of each			

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Behavioral Skills	Behavioral Outcomes
	Behavioral Intentions		
	Avoid unintended pregnancy		
	Practice contraception in all		
	sexual encounters		

Key: UIP= Unintended pregnancy; STI= Sexually Transmitted Infection Preventing Personal (Relationship/Dating) Violence

Learning Objectives

- To increase awareness of the prevalence of and factors that contributes to relationship violence.
- To develop skills for avoiding relationship violence.
- To increase communication skills to avoid relationship violence.
- To change attitudes and norms about decreasing relationship violence.
- Decrease situations where relationship violence occurs.

Information	Motivation	Male Behavioral Skills	Female Behavioral Skills	Male Behavioral	Female Behavioral
				outcomes	outcomes.
Define sexual assault and consent using legal military definitions.	Personal Increase awareness of situations that may increase the risk for	Assist participants in identifying aspects of a healthy relationship • Discuss expectations for	Assist participants in identifying aspects of a healthy relationship	Reduce the frequency of engaging in sexual behavior while under the influence of alcohol	Reduce frequency of participant engaging in risky situations.
Define relationship violence	Increase awareness about how trauma from	relationshipDiscuss how they want to be treatedBuild negotiation skills	 Discuss expectations for relationships Discuss how they want to be treated 	Increase in partner communication about sex, sexual intimacy and	Going to secluded places with new partner.
Define a consensual sexual relationship Provide	relationship violence can create life long problems including: • Problems in sexually and emotionally intimate	 Build assertive communication skills Build active listening skills 	Build negotiation skills Build assertive communication skills	Positive change in attitudes with regard to sex/gender roles.	Drinking to excess.Giving mixed messages
relationship violence prevention resources that are available to	relationships Increased risk of revictimization Post traumatic stress disorder.	Provide opportunities to practice Negotiation skill building Assertive	Build active listening skills Provide opportunities to practice	A decrease in the acceptance of relationship violence.	Not letting a friend know when she will be back from a date Reduce the

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Male Behavioral Skills	Female Behavioral Skills	Male Behavioral	Female Behavioral
participants. Examine the role that excessive alcohol consumption may play in relationship violence	Social Norms Increase knowledge of relationship violence as an issue that is prevalent in civilian populations and in military populations (i.e. The Marines) Discuss how relationship violence can negatively impact Readiness for combat Esprit de corps Morale within the unit Discuss how sex roles and gender roles contribute to relationship violence Examine the role of the media in contributing to stereotypes and gender role expectations and their relationship to relationship violence. Discuss societal norms about relationships Male entitlement in relationships. (if he pays for the date he is entitled to sex. Women believing that if a male pays for the date they are expected to have sex.	communication skill building Active listening skill building Build communication skills to effectively communicate with partners about sexual intimacy and the parameters of sexual activity No sex Safer sex Only certain types of sex. Never assume to know what a woman wants. Always ask before engaging in a sexual activity. Increase ability to identify potential warning signs that may increase the risk of relationship violence.	Negotiation skill building Assertive communication skill building Active listening skill building Build communication skills to effectively communicate with partners about sexual intimacy and the parameters of sexual activity No sex Safer sex Only certain types of sex. To develop a safety plan for risky relationship situations Assist participants to develop and articulate a personal plan to avoid risky relationship/sexual situations Not drinking to excess Speaking up if a sexual situation makes you uncomfortable. Not sending mixed messages about sexual interest.	A decrease in incidence of relationship violence.	frequency of engaging in sexual behavior while under the influence of alcohol Increase in ability to communicate sexual parameters to a relationship partner A decrease in the acceptance of relationship violence. A decrease in the incidence of relationship violence.

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Male Behavioral Skills	Female Behavioral Skills	Male Behavioral	Female Behavioral
				outcomes	outcomes.
	• Increase		Be aware of your		
	awareness of how power		surroundings and if		
	and control issues can		you feel		
	negatively impact		uncomfortable get out.		
	relationships and		Avoid isolated and		
	contribute to		secluded places		
	relationship violence.		Make sure a		
	• Discuss male		friend/buddy is with		
	expectations of		you or knows where		
	relationships		you are and when you		
	o Having a		are supposed to be		
	sexual partner o Fulfilling		home.		
	emotional needs				
	o Fulfilling				
	physical needs.				
	o Benefits				
	of being in a couple				
	Discuss women's				
	expectations of				
	relationships				
	o Having				
	to have a man				
	o The need				
	to always be in a				
	relationship				
	,				
	Discuss ways that				
	women and men can				
	be allies to one				
	another in				
	social/relationships				
	Men—respecting				
	a woman's				
	boundaries when				
	she say no in a				
	sexual situation				

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Male Behavioral Skills	Female Behavioral Skills	Male Behavioral outcomes	Female Behavioral outcomes.
	No=No Maybe=No Drunk (unable to consent)=No Woman being unsure= No Women—stating clearly to relationship partner when a sexual advance is not wanted. Not giving ambiguous signals Increase empathy and understanding for victims				
	of relationship violence. Perceived Vulnerability Increase awareness of how relationship violence could negatively impact a Marine's career and reputation.				
	Increase awareness of how relationship violence can contribute to an increased risk of contracting and STI, HIV or UIP.				
	Self efficacy Increase self confidence to avoid situations that could increase risk of relationship violence Behavioral Intention				

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Male Behavioral Skills	Female Behavioral Skills	Male Behavioral	Female Behavioral
				outcomes	outcomes.
	Increase intention to avoid				
	situations that increase the				
	risk of relationship				
	violence.				

Preventing Alcohol Misuse/Abuse

Learning Objectives:

- Provide basic information about the effects of alcohol.
- Increase understanding of the role that alcohol plays in sexual risk behavior.
- Reduce misuse of alcohol.
- Reduce the occurrence of alcohol use when engaging in sexual behavior.

Information	Motivation	Behavior Skills	Behavioral Outcomes
Increase knowledge about blood alcohol levels and blood alcohol content. Discuss basic facts about alcohol and how it affects the body. Discuss factors that influence the effects of alcohol Gender differences with regard to alcohol consumption Alcohol content in each drink Amounts consumed Amount of time between drinks Gender and body weight composition Water consumption (hydration) Empty or full stomach Hormonal changes in women Alcohol dehyrogenase Use of other medicines or drugs Mental and emotional state	Personal Discuss the negative impact of excessive alcohol use. Hangovers DUIs Risky sexual behaviors Reduction of work capability Lost days of work Increase understanding of reasons for drinking. Have fun Relieve stress Increase courage (Liquid courage) Fit in Deal with negative emotions (upset or anxiety) Loneliness (first time away from home) Boredom (wanting to experiment) Social pressures to use alcohol.	Increase skills for setting personal limits for alcohol misuse. Increase skills for creating safe drinking environments. • Set up a buddy system to aide in adhering to personal limits set for alcohol consumption • Appoint a designated driver • Eat before drinking • Being properly hydrated • Avoiding alcohol misuse in dating situations • Avoiding risky sexual behaviors while drinking • Communicating intentions and limits of alcohol use with peers.	Reduce amount of alcohol misuse. Reduce number of days per month that alcohol was consumed Reduction in frequency of lost days of work due to alcohol misuse. Reduction in frequency of engaging in alcohol use and sexual behavior. Reduction in frequency of engaging in alcohol use and driving or working.

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Behavior Skills	Behavioral Outcomes
Increase awareness of the relationship between	Discuss the expectations both spoken and unspoken for alcohol		
 Alcohol and sexual behavior. 	use within		
Alcohol and driving	Marine Corps wide		
Alcohol and relationship	• Unit		
violence	Personal peer groups		
Discuss reasons why people chose	Discuss benefits of alcohol use		
to use alcohol.	Marine Corps wide		
Social Disinhibitor	• Unit		
• Increases Courage (Liquid courage)	Personal peer group		
• Expected norm of the group	Discuss how the media and how		
• To relieve stress	that portrayal influences alcohol		
To relax	use (by increasing the desire for		
To reduce boredom	use)		
Discuss patterns of alcohol use • Experimental	Perceived Vulnerability Examine how knowledge, beliefs,		
Occasional	and values about alcohol use		
• Situational	affect the use and misuse of		
• Intense	alcohol.		
• Compulsive	Family history of alcoholism.Religious beliefs/values about		
Provide basic information and	alcohol use		
statistics about alcohol use and	• Family norms around alcohol use. (permissive or prohibitive		
misuse in	drinking)		
• Civilians			
The military wide	Self efficacy Increase confidence in one's		
Marines Corps	ability to not misuse alcohol		
Educate participants about the	.,		
symptoms of problem drinking	Increase confidence in one's		
	ability to drink appropriately in		

Appendix 2: Intervention Learning Objectives for Each Health Outcome of Interest

Information	Motivation	Behavior Skills	Behavioral Outcomes
Provide resources that are available on and off base to participants. Encourage them to seek assistance for alcohol misuse if they feel that they need it.	any situation Increase confidence in one's ability to misuse alcohol and engage in sexual behavior.		
	Behavioral Intention Increase intention to avoid alcohol misuse and Sex Dating situations Driving and operating equipment		

Key:

DUI= Driving under the influence of alcohol

Misuse defined as heavy alcohol use (5 or more drinks at one time)

Misuse includes engaging in behaviors that increase the negative impact of alcohol such as

- Drinking quickly
- Drinking on an empty stomach
- Drinking when not properly hydrated
- Drinking and engaging in sexual behavior
- Drinking and driving or using other equipment
- Drinking during emotional upset
- Drinking while taking medications and other drugs.

Control Intervention: Fitness for Life II

Learning Objectives:

- Identify individual/cultural/social influences on nutritional choices
- Summarize the Dietary Recommendations for Americans 2005
- Skillfully use food labels to meet nutritional needs
- Identify healthier choices in markets, restaurants and mess halls
- Define nutritional requirements for peak physical performance
- Define basic fitness concepts
- Develop a personal fitness program for peak performance
- Reduce their risk of physical training and work place injuries
- Identify basic injuries and initiate care
- Recognize how alcohol and tobacco use effects health and performance
- Recognize stress and how to use stress reduction techniques
- Take personal responsibility for goals, motivation and skills required to meet individualized dietary needs and fitness goals

Module Outline:

I/M Introduction Material – Program overview, purpose and goals (General overview and session specific introductions) I/M Supersize Me, A Film of Epic Portions (Segment) Gain attention Raise awareness of the individual/cultural/social problems Establish basic facts regarding obesity epidemic M Self-Assessment Survey (Perkins-Porras, et. al, 2005) Tool assess participants' dietary needs for change and their readiness for change Complete tool and score...grouping purpose not discussed with participants. Use tool for later small group discussions I/M Large Group Discussion Where do I usually eat? How do I decide what I'm going to eat? Who do I eat with? Why do I eat? Who or what influences these choices? Location Time of Day Peer Pressure Money Media Who is responsible for my choices? I Nutrition Basics Slide Set (USHHS and USDA, 2005) My Pyramid Dietary Recommendations for Americans 2005 B Food Label Video (FDA, 2004) Reading, understanding and using as a tool Cultural Influences Discussion (family/society/media/military) I

MB Healthy Goal Setting worksheet

IMB Small Group or On-line Homework based on levels of contemplation

Group Definitions:

Group 1 – Precontemplators, not currently thinking about improving their nutrition/exercise

Strategy:

- Make aware of eating patterns
- Explain health benefits
- Raise motivation to change
- Short-long term goals established
- Individualized advice

Group 2 – Contemplators, thinking about improving nutrition/exercise but not either intending to do so within the next month or not confident of being able to stick to the plan

Strategy:

- Increase motivation and confidence
- Think specifically how to put into practice
- Problem solve/anticipate difficulties
- Short-long term goals review/reinforcement

Group 3 - Preparation/Maintenance, thinking and planning to improve nutrition/exercise within next month and confident of success or are currently working to improve nutrition/exercise practices

Strategy:

- Help feel more confident of success
- Make firm commitments
- Develop practical skills
- Advise on purchases/preparation
- Problem solve/anticipate difficulties
- Short-long term goals review/reinforcement
- I Large group discussion based on questions fielded on-line
- IM Small Group Discussion and/or Role Play
 Levels of Contemplation and Personal Assessment

Appendix 3: C	ontrol .	Interveni	tion Fi	tness for	Life II Mo	odule Outlin	ıe

В Introduction to Dietary Recall Worksheet – "Homework" (USDA...MyPyramid.gov, 2005) В Demonstration of On-line Tools My Pyramid, Calorie King and specific restaurant sites I/M Weight Management Slide Set В Dietary Recall Worksheet (Session 2 or 3) (USDA...MyPyramid.gov, 2005)-Individual completes based on homework/recall Based on chow hall meals В Portion Distortion Game I Restaurant Confidential/Snacking/Shopping Slide Set (Multiple sources) I/M Fitness and Physical Activity - Slide Set **Setting Training Goals** The Basics • Before you start...equipment and clearance Stretching • Strength Training • Endurance/Cardiovascular Training • Cross Training Opportunities Supplement Use В Starting and Working with a Training Log Ι Nutrition for Peak Performance Informational slide set Carbohydrates, protein, hydration... Training/nutrition log – expanding on the training log Day of Event Menu Activity Information/Support Resources On-line – Nike, GNC...sites Military Fitness Programs

Appendix 3: Control Intervention Fitness for Life II Module Outline

IMB	Sports and Work Place Injury Prevention and "First Aid"
	Slide Set
	• Types of Injuries

- Types of Injuries
- Prevention Techniques
- First Aid
- Seeking Medical Attention
- Rehabilitation
- Possible Long-term Consequences

I/M/B Alcohol and Smoking – ask Cherrie – focus and materials?

I/M/B Stress and Stress Reduction Techniques Slide Set

- B Contemporary Comfort Food Large Group Discussion Individual/cultural/social influences Simple modifications to make healthier choices
- B Dietary Recall Worksheet (Session 4)
 (USDA...MyPyramid.gov, 2005) Return analysis of individual worksheets/discuss results
 Worksheet reflects one day's choices
 Set short/long term goals for nutrition and exercise

I/M Conclusions –

Program review, purpose, future topics (sessions 1, 2 and 3) and wrap-up questionnaire (session 4)